

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 6, line 11, with the following rewritten paragraph:

By altering the parameters and shape equations of this process, the present invention can also be used to monitor biological processes in which real time responses must be made to nonrecurrent, qualitatively templatable images. In the preferred embodiment, which is optimized ~~for~~ for driver drowsiness detection, video information is transferred in real time to a digital buffer with intensity filtering characteristics such that the filtered buffer contains intensity levels consistent with a first approximation to defined feature extraction.

Please replace the paragraph beginning at page 10, line 1, with the following rewritten paragraph:

Operation of the SDM is shown in FIGS 4-6. Each ROI has a characteristic shape organization which is configured to the expected fiducial shape to be detected. Thus, in FIG 4B, for the eye ROI 90 the characteristic shapes for eye position detection are indicated by the two dark ovals 91 which are set to detect horizontal bands likely to represent the eyebrow or palpebral fissure. These ovals form an umbra. Surrounding them is a bicrescentic penumbra 92. As referenced in the raw video of FIG 4A 93, ~~eyebrow~~ eyebrow selection by VLFM is evident in SR1 94, where a portion of the eyebrow selected intensity region impinges on the upper umbral component, and in SR2 95, where a portion of the eyebrow selected intensity region impinges on the lower umbral component. Similarly, the palpebral fissure selection by VLFM is impinging on the margins of the upper and lower umbras in SR3 96 and in SR4 97, as derived from the raw video 98.